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File: JPAB

Apr 10, 1990

PUB-NO: JP402097596A

DOCUMENT-IDENTIFIER: JP 02097596 A

TITLE: METAL WORKING OIL AND METAL WORKING METHOD

PUBN-DATE: April 10, 1990

INVENTOR-INFORMATION:

NAME

COUNTRY

GOTO, MASAHIWA

ASSIGNEE-INFORMATION:

NAME

COUNTRY

IDEMITSU KOSAN CO LTD

APPL-NO: JP63249773

APPL-DATE: October 5, 1988

INT-CL (IPC): C10M 173/02

ABSTRACT:

PURPOSE: To obtain a metal working oil which can improve the workability of metal such as a steel sheet, provide a metal with good surface conditions both during and after working, and facilitate the surface treatment of metal after working by incorporating a water-soluble polymer and a microencapsulated lubricating agent into water.

CONSTITUTION: A metal working oil is prepared by incorporating a water-soluble polymer (e.g., a water-soluble acrylic resin represented by an acrylic ester/ammonium acrylate copolymer) and a microencapsulated lubricating oil (e.g., a material containing an oleic acid/lard mixture as the lubricating oil and gelatin as the membrane substance) into water. Since the lubricating agent is microencapsulated, this oil can be readily dispersed in a water-base system and can realize an improvement in the adhesion of the coating film to a metal surface. A pressure in working will break the capsule membrane to release the lubricating agent so that the portion to be worked can be effectively lubricated. Only a polymer film and a liquid additive will remain on the metal surface after working; therefore, post-treatment, such as surface treatment, can be facilitated.

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Aug 1, 1991

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PUB-NO: JP403177498A

DOCUMENT-IDENTIFIER: JP 03177498 A

TITLE: WATER-SOLUBLE LUBRICANT COMPOSITION FOR METAL WORKING

PUBN-DATE: August 1, 1991

## INVENTOR-INFORMATION:

NAME

COUNTRY

AKAGAWA, AKIRA

IKEDA, TSUYOSHI

AOKI, KENICHI

NODA, MASAHIRO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

YUSHIRO CHEM IND CO LTD

APPL-NO: JP01316280

APPL-DATE: December 5, 1989

INT-CL (IPC): C10M 173/00

## ABSTRACT:

PURPOSE: To obtain the subject composition, composed of antimicrobial substance-containing microcapsules and a lubricant component such as mineral oil, excellent in putrefaction resistance, stably usable for a long period and utilized for cutting, grinding, roll forming working, etc.

CONSTITUTION: The objective composition composed of (A) microcapsules containing an antimicrobial substance such as antimicrobial or antifungal substance therein and (B) one or more selected from mineral oil, synthetic lubricants, oiliness improvers and extreme-pressure agents. Furthermore, the antimicrobial substance is added in an amount of normally 0.01-50wt.% (preferably 0.5-20wt.%) based on the lubricant composition.

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